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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/682,524

10/10/2003

Nomo Yang

SUND 486

2933

23995

7590

11/18/2005

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EXAMINER

LETSCHER, GEORGE J

ART UNIT

PAPER NUMBER

2653

DATE MAILED: 11/18/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/682,524

Applicant(s)

YANG, NOMO

Examiner

George J. Letscher

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 26 August 2005.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1 and 4-6 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1,4-6 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yamashita et al (US 5,063,548).

The aforementioned claims recite the following features, inter alia, disclosed in Yamashita et al (US 5,063,548): an isolation apparatus for a pickup head in an optically readable storage apparatus having a chassis, a spindle motor and sled motor, a pickup head (34) supported by two shafts and a motor, the isolation apparatus comprising four integrally formed insulating sheaths (48) wrapped around each end of the two support shafts (38) for isolating interference between the pickup head and the motor. The size of the insulating sheath matches a size of the support shaft for tightly wrapping around the end of support shafts.

Regarding claim 1, Yamashita et al do not show its insulating sheath comprising at least four insulating sheaths. Regarding claim 6, Yamashita et al do not expressly show a grounding part of the spindle motor, sled motor and pickup head coupled to the chassis.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to have furnished the isolation apparatus for a pickup head having an insulating sheath as taught by Yamashita et al with the sheath having at least four insulating sheath members. The

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rationale is as follows: one of ordinary skill in the art would have been motivated to have furnished the isolation apparatus for a pickup head having an insulating sheath as taught by Yamashita et al with the sheath having at least four insulating sheath members since it has been held that mere duplication of the essential working parts of a device involves only routine skill in the art. St. Regis Paper Co. v. Bemis Co., 193 USPQ 8 (7th Cir. 1977).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to have provided the isolation apparatus for a pickup head having an insulating sheath as taught by Yamashita et al with a grounding part of the spindle motor, sled motor and pickup head coupled to the chassis since one of ordinary skill in the art would have been motivated to ground these components since without grounding, the apparatus would not have operated properly because of stray electrical signals which would have damaged the apparatus.

Response to Amendment

3. Applicant's arguments filed 8/26/05 have been fully considered but they are not persuasive.

On pages 7-8 of the remarks of 8/26/05, Applicant submits that the insulating sheaths are integrally formed and wrap around the end of the two support shafts and that the insulating sheath matches a size of the support shaft for tightly wrapping around the ends of the support shafts. Applicant asserts that the insulating sheaths formed integrally is not disclosed nor suggested by Yamashita et al because Yamashita et al shows an insulating resin tape in columns 2, line 65 to column 3, line 9 of Yamashita et al. However, the Examiner begs to differ because

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of two main points: a) Yamashita et al do teach integrally, i.e., formed as a unit with another part, formed insulating sheaths of resin tape since the sheathing tape is the material that contacts the notch 42 and plate spring 44; see column 2, lines 67 to column 3, line 1 of Yamashita et al; and b) the insulating sheath of Yamasita et al, by virtue of the resin tape wound on the end of the guide shaft, matches the size of the shaft since the tape contacts the shafts to insulate them. See column 2, lines 65-67. In lines 4-8 of column 3 in Yamasita et al, the tape electrically isolates guide shafts 38 from frame 36 for preventing noise from being transmitted to the optical head. Applicant's assertion that imprecise assembling/wrapping of the tape "could" have an adverse effect on the electrical signal quality in Yamasita et al does not preclude the claim language from reading on the structure of Yamasita et al and therefore does not impact the merits of the application concerning the aforementioned claim(s).

Conclusion

4. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

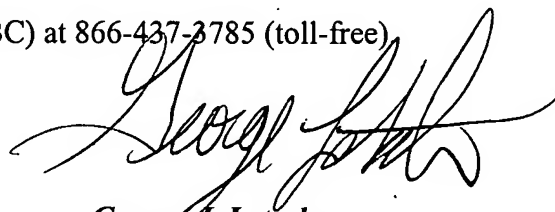
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however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to George J. Letscher whose telephone number is 571-272-7591. The examiner can normally be reached on a Conventional work schedule.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William Korzuch can be reached on 571-272-7589. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8000.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-437-3785 (toll-free).



George J. Letscher
Primary Examiner
Art Unit 2653

GJL
11/14/05